AUTHOR INDEX, VOLUME 35

A — Page

Adkins, Stephen W. . . . 169
Alaniz, Mario A. . . . 295
Anderson, Doug H. . . . 691
Anderson, Lars W. J. . . . 263
Anderson, Robert N. . . . 496
Arnold, W. Eugene . . . 568

B

Banwart, Wayne L. . . . 282
Barrett, Michael . . . 564
Basham, Gary . . . 576
Basham, G. W. . . . 865
Bassi, Pawan K. . . . 802
Bauman, Thomas T . . . 568
Bayer, David . . . 263
Bellinder, Robin R. . . . 27
Bendixen, Leo E. . . . 769
Benoit, Frans . . . 469
Bestman, Hank D. . . . 22
Beversdorf, Wallace D. . . . Suppl. 1:9
Bhowmik, Prasanta C. . . . 95
Binning, Larry K. . . . 177
Black, Howard L. . . . 127
Blockstein, David E. . . . 160
Boggs, Keith W. . . . 145, 194
Bouse, L. Fred. . . . 253
Bovey, Rodney W. . . . 253
Boydston, Rick A. . . . 103
Boykin, Deborah L. . . . 842
Bradley, J. R. . . . 824
Brain, Philip . . . 720
Breaux, E. Jay . . . 463
Brede, A. Douglas . . . 123
Bridges, David C. . . . 63, 594, 678
Brown, Steven M. . . . 678, 695
Bryson, Charles T. . . . 115, 314
Buhler, Douglas D. . . . 412
Burger, James A. . . . 590
Burnside, Orvin C. . . . 364, 547
Byrd, John D. . . . 270, 388

C

Cairoli, Maria A. . . . 599
Cappadocia, Mario . . . 633
Cardina, John . . . 700
Carter, Charles H. . . . 75, 199, 418
Cargill, Lonnie M. . . . 123
Ceustermans, Norbert . . . 469
Chalmers, David R. . . . 533
Chandler, James M. . . . 15, 63, 647, 678, 695
Chandrasena, Nimal R. . . . 457
Clay, Sharon A. . . . 640
Coats, G. Euel . . . 691
Coble, Harold D. . . . 541
Coffin, Robert D. . . . 324
Cole, A. Wayne . . . 519
Collins, William K. . . . 824
Comai, Luca. . . . Suppl. 1:19
Conant, Jr., Richard D. . . . 247
Conn, Jeffery S. . . . 524
Corbin, Frederick T. . . . 824
Cosgrove, Dennis R. . . . 564
Cothren, J. Tom. . . . 15, 647
Cousens, Roger . . . 720
Crabtree, Garvin D. . . . 333
Cronin, Eugene H. . . . 792
Cronwald, John W. . . . 496
Croom, Edward M. . . . 499
Curran, William S. . . . 669

D

Dale, Jim E. . . . 438
Dale, Mark R. T. . . . 348
Daley, Larry S. . . . 333
Dao, Thanh H. . . . 395
Darmstadt, Gary L. . . . 263
Das, V. S. Rama . . . 141
Dawson, Jean H. . . . 80
Dechoretz, Nathan . . . 263
Defelice, Michael S. . . . 108
Dekker, Jack. . . . 784
Deschenes, Jean-Marc . . . 654
Devine, Malcolm D. . . . 22
Devlin, Daniel L. . . . 1, 741, 775
Dickens, Ray . . . 858
Donald, William W. . . . 149
Duke, Stephen O. . . . 499
Dukes, Philip D. . . . 715
Duncan, Keith W. . . . 837

E

Eberlein, Charlotte V. . . . 568, 796
Edmund, Jr., Richard M. . . . 216, 231
Egley, Grant H. . . . 45
Ellstrand, Norman C. . . . 506
Elmore, C. Dennis. . . . 45
Elsohly, Hala N. . . . 499
Everitt, James H. . . . 295, 427
Ezra, G. . . . Suppl. 1:24

F

Facciotti, Daniel . . . Suppl. 1:19
Farris, Martha L. . . . 524
Fawcett, James A. . . . 568
Fawcett, Richard S. . . . 68
Fay, Peter K. . . . 6, 160
Fisher, Herbert H. . . . 333
Foley, Michael E. . . . 6, 155, 180
Foy, Chester L. . . . 11
Friesen, George H. . . . 228

G

Gardner, Gary . . . 763
Gealy, David R. . . . 1, 277, 482, 741, 775
Gebhardt, Maurice R. . . . 830
Goodman, Robert M. . . . Suppl. 1:28
Gorski, Stanley F. . . . 559
Goss, John R. . . . 763
Gotlieb, A. R. . . . 377
Goudey, J. Stephen . . . 802
Green, J. D. . . . 813

H

Hackett, Neil M. . . . 360, 780
Hajek, Ben F. . . . 858
Hale, Maynard G. . . . 211, 753
Harrison, Howard F. . . . 715
Harris, Thomas C. . . . 663
Hartwig, Edgar E. . . . Suppl. 1:4
Harvey, R. Gordon . . . 583
Harvey, Robert G. . . . 568
Hatterman, Harlene M. . . . 373
Hayden, Thomas A. . . . 364
Hein, Jr., Hugo . . . 253
Heering, David C. . . . 691

Hiatt, William R. . . . . Suppl. 1:19
Hicks, T. Vint 356
Hodgson, Richard H. 52
Holt, Jodie S. 506
Holt, Neal W. 673
Hons, Frank M. 647
Hopen, Herbert J. 533
Horak, Michael J. 506
Hosaka, Hideo 604, 612, 619
Howe III, Otis W. 185
Hunter, Jim H. 673
Hurtt, Woodland 52

J

Jones, Alfred 715

K

Kaul, M. L. H. 513
Keeley, Paul E. 75, 173, 199, 418
Kells, James J. 568
Kerr, Eric D. 99
Kerr, Harold D. 830
Khodayari, Khosro 127
Kim, Jae C. 769
Kohli, R. K. 629
Koskinen, William C. 36
Kott, Laima S. . . . . Suppl. 1:9
Kumari, Anita 629

L

Lantagne, Douglas O. 590
Lassiter, Jr., Ralph B. 541
Lavy, Terry L. 576, 865
Leather, Gerald R. 211, 753
LeBaron, Homer M. . . . . Suppl. 1:2
Lemieux, Claudel 654
Liebl, Rex 383, 623, 819
Leif III, John W. 547
Loewen, Mary 169
Lurquin, P. F. . . . . Suppl. 1:12
Lyons, Robert E. 27

Mc

McAllister, Ray S. 68
McDaniel, Kirk C. 837
McGuire, John A. 682
McWhorter, Chester G. 237

M

Magnusson, Mark U. 637, 846
Malik, Najib 490
Mangal, P. D. 513
Maraite, Henri 469
Maroder, Horacio L. 599
Martin, Alex R. 547
Martin, James R. 108
Maxwell, Bruce D. 6, 160
Mayeux, Jr., Herman S. 444
Meggitt, W. F. 449
Menendez, Ricardo A. 333
Menges, Robert M. 328, 339
Mercer, Kay L. 807
Mersie, Wondimagegnehu 11, 303
Meyer, Robert E. 253
Mixon, Aubrey C. 700
Molyneux, Russell J. 476
Moons, Chantal 469
Morrison, Jr., John E. 678, 695
Morrow, Larry A. 1, 277, 669, 741, 775
Moshier, Loren J. 568, 757, 853
Munger, Philip H. 15, 647
Munoz, Roni F. 691
Murray, Don S. 360, 780, 807, 813

N

Nissen, Scott J. 155
Nordquist, Paul T. 259
Nowierski, Robert M. 145

O

O'Donovan, John T. 720
Oelke, Ervin A. 640
Oliver, Lawrence R. 185, 576
Orr, Wendel B. 853
O'Sullivan, P. Ashley 720
Ozair, Chaudhry A. 757, 853

P

Paparozzi, Ellen T. 373
Paterson, David M. 704
Patterson, David T. 324
Patterson, Michael 422, 433, 682
Penner, Donald 89, 243, 449
Perkins, E. J. . . . . Suppl. 1:12
Pettit, Russ D. 295
Pitty, Abelino 319
Prasad, J. S. Rama 141
Prego, Imelda A. 599
Putnam, Alan R. 308

R

Rajendrudu, G. 141
Ralphs, Michael H. 746, 792
Rick, Susan K. 282
Riggle, Bruce D. 243
Ritter, Ronald L. 663
Robb, James G. 99
Robb-Spencer, Donna 333
Rodebush, James E. 289
Roggenbuck, Frank C. 89
Rouchaud, Jean 469
Rudyanski, Wade J. 68
Ruizzo, Michael A. 559

S

Sagar, Geoff R. 457
Saini, Hargurdeep S. 802
Samples, Thomas J. 123
Sanborn, James R. 763
Scheckler, Stephen E. 27
Schmidt, John W. 259
Schreiber, Marvin M. 407
Scott, H. Don 576
Scruggs, Jim W. 691
Shasha, Baruch S. 407
Shaw, David R. 519
Shea, Patrick J. 373
Sikkema, Peter H. 784
Sims, Gregory R. 356, 682
Singh, Megh 303, 749
Slife, Fred W. 103, 282, 568
Smits, Nancy 163
Smith, H. Randy 519
Smith, John A. 99
Smith, Jr., Roy J. 127
Snipes, Charles E. 224, 401, 519, 529, 686, 842

Sorensen, Veldon M. 449
Spencer, Mary S. 802
Spencer, Neal R. 324
Spitzmueller, Joseph M. 637
Stalker, David M. . . . . Suppl. 1:19
Staniforth, David W. 319
Stephenson, G. R. . . . . Suppl. 1:24
Sterling, Tracy M. 308
Steward, Kerry K. 204, 247
Stiff, C. M. . . . . Suppl. 1:12
Story, Jim M. 145, 194
Street, Joe E. 224, 401, 422, 529, 686, 842
Sung, Shi-Jean S. 211, 753
Symons, Stephen J. 169

T

Takagi, Masae (Kubota) 604, 612, 619
Tamma, Rama V. 749
Tan, Chin S. 163
Thomas, A. Gordon. 348
Thompson, Gregory A. . . . . Suppl. 1:19
Thomson, Craig E. 58
Tiffany, Lois H. 319
Thullen, Robert J. 75, 173, 199
Turgeon, Al J. 533

V

Van, Thai K. 204, 247
Vanden Born, William H. 22, 490
Vaughn, Kevin C. 36, 499
Verhalen, Laval M. 807, 813
Vilarreal, Ricardo 427
Vincent, Gilles. 633

W

Walker, Robert H. 422, 529, 594, 711
Walls, Jr., Frank R. 824
Watson, A. K. 377, 654
Wauchope, Robert D. 237
Weaver, Susan E. 163
Webber III, Charles L. 830
Weeks, David L. 780
Wehtje, Glenn 356, 422, 433, 682, 700, 711, 858
Werner, Georgina M. 757
Wilcut, John W. 356, 433, 858
Whisenant, Steven G. 120
White, Michael D. 407
Whitesides, Ralph E. 554, 669
Wicks, Gail. 259
Wiese, Ann M. 177
Wilcut, John W. 711
Williams, M. Coburn 476, 746
Wills, Gene D. 237
Wilson, Henry P. 27
Wilson, Robert G. 99, 289, 568
Witt, William W. 58, 108
Wright, S. John L. 704
Worsham, A. Douglas. 383, 623, 819, 824
Wymore, L. A. 377
Wyse, Donald L. 637, 846

Y

Yonts, C. Dean 99
York, Alan C. 216, 231, 270, 388
Young, Frank L. 554

Z

Zimdahl, Robert L. 149

SUBJECT INDEX, VOLUME 35

A

Abelmoschus esculentus . . . 45
ABMES . . . 45
Absorption . . . 6, 237, 253, 457, 741, 749, 757, 775
Absorption, foliar and root . . . 231
ABUTH . . . 11, 15, 303, 308, 324, 377, 449, 463, 496, 499, 647, 757, 853
Abutilon theophrasti . . . 15, 303, 308, 324, 377, 449, 463, 496, 499, 647, 757, 853
Acacia farnesiana . . . 427
ACAFE . . . 427
Accumulation . . . 469
Acid detergent fiber . . . 564
Acidic solutions . . . 11
Acidity . . . 796
Acifluorfen . . . 449
Adjuvants . . . 253, 422, 853
Adsorption . . . 282
AEGCY . . . 149, 482
Aegilops cylindrica . . . 149, 482
Aerial photography . . . 427
Afterripening . . . 796
Agropyron repens . . . 457, 524, 784
AGRRE . . . 457, 524, 784
Air temperature . . . 568
Alachlor . . . 89, 108, 127, 216, 243, 364, 438, 547, 583
Allelochemical . . . 499
Allelopathy . . . 308, 339, 629
AMACH . . . 237, 763
AMAL . . . 52
AMAPA . . . 199, 328, 339
AMAPO . . . 80
Amaranthus albus . . . 52
Amaranthus hybridus . . . 763
Amaranthus palmeri . . . 199, 328, 339
Amaranthus retroflexus . . . 27, 52, 99, 177, 449, 499, 763, 824
Amaranthus spinosus . . . 824
Amaranthus spp. . . . 80
AMARE . . . 27, 52, 80, 99, 177, 373, 449, 499, 763
AMASS . . . 824
AMBEL . . . 633, 824
Ambrosia artemisiifolia . . . 633, 824
Ambrosia trifida . . . 633
AMBTR . . . 633
Amelanchier alnifolia . . . 120
Amidochlor . . . 95
Andropogon saccharoides . . . 123
ANOSA . . . 123
Anoxia . . . 303
Antagonism . . . 270, 383, 449, 541, 623
Antidote . . . 289
Application equipment . . . 438
Application method . . . 412
Application site . . . 853
Aquatic plant . . . 704
Aquatic weed . . . 247, 263
Arachis hypogaea . . . 356, 433, 682, 700, 711, 780
ARD 54 . . . 422
ARD 93 . . . 422
ARD 1863 . . . 422
ARTAN . . . 499
Arteannuin B . . . 499
Artemisia annua . . . 499
Artemisia tridentata . . . 120
Artemisinin . . . 499
ARTTR . . . 120
ASAMI . . . 746
Aster spinosus . . . 295
Astragalus lentiginosus . . . 792
Astragalus miser var. *oblongifolius* . . . 746
ASTSN . . . 295
Atrazine . . . 103, 583, 763, 858
Atrazine tolerance . . . 496
Autotoxicity . . . 629
AVEFA . . . 169, 180, 228, 524, 669, 673, 720
Avena fatua . . . 169, 180, 228, 524, 669, 673, 720
Avena sativa . . . 769

B

Base temperature . . . 177
BAY SMY 1500 . . . 395
Benazolin . . . 253
Benefin . . . 533
Bentazon . . . 127, 237, 449, 541
Beta vulgaris . . . 99
Binding . . . 763
Biochemical characterization . . . 333
Bioconcentration factor . . . 247
Bioiogical controi . . . 324
Biotypes . . . 333, 749
Boll size . . . 813
Brachiaria platyphylla . . . 388
BRAKA . . . 463
BRAPP . . . 388
Brassica kaber . . . 463
Bromoxynil . . . 554, 673
Bromus secalinus . . . 395
Bromus tectorum . . . 1, 277, 395, 741, 775
BROSE . . . 395
BROTE . . . 1, 277, 395, 741, 775
Bud dormancy . . . 6
Butylate . . . 68, 289, 412, 583

C

C_3 plants . . . 141
C_4 plants . . . 141
Calamagrostis canadensis . . . 524
CAPBP . . . 524
Capsella bursa-pastoris . . . 524
Carbofuran . . . 68
Carbohydrate generation . . . 141
Carpeted roller . . . 444
Caryopses . . . 319
Carrier volume . . . 123, 412
CASOB . . . 216, 231, 422, 433, 463, 594, 682, 711, 824
Cassia obtusifolia . . . 216, 231, 422, 433, 463, 594, 682, 711, 824
Cell cycle . . . 769
Cell division . . . 604, 612, 769
Cell growth . . . 612
Cell survival . . . 629
Cell wall . . . 612
Cellular effects . . . 27
CENMA . . . 145, 194
Centaurea maculosa . . . 145, 194
CGA-82725 . . . 115, 282, 418, 769
CGA-92194 . . . 547
CHEAL . . . 80, 99, 177, 524, 824
Chelate . . . 263
Chenopodium album . . . 80, 99, 177, 449, 524, 824
CHERAL . . . 449
Chloramben . . . 757, 853
Chloroacetanilide selectivity . . . 463
Chlorocholine chloride . . . 180
Chlorophyll content . . . 629
Chlorpropham . . . 373
Chlorsulfuron . . . 22, 259, 383, 554, 623
Chromatography . . . 22
Cinmethylin . . . 499
CIRAR . . . 637

Cirsium arvense . . . 637
Cloproxydim . . . 115
Clopyralid . . . 120, 253, 746
Cluster analysis . . . 348
Coleoptile . . . 604, 619
Colletotrichum coccodes . . . 377
Color, conventional . . . 427
Color-infrared . . . 295, 427
Compensation point . . . 482
Competition . . . 15, 163, 185, 314, 529, 654, 663, 669, 720, 780, 784, 807, 813, 830
Competitive threshold . . . 63
Component analysis . . . 654
CONAR . . . 463
Contact time . . . 247
Continuous-flow ecosystem . . . 704
Convolvulus arvensis . . . 463
Copper . . . 204
Copper-ethylenediamine . . . 263
Copper sulfate . . . 263
Copper-triethanolamine . . . 263
Corn . . . 103
Cotton fiber . . . 418
Cotton fiber properties . . . 807
Critical minimum density . . . 63
Critical stress periods . . . 784
Crolataria alata . . . 476
Crolataria argyrolobioides . . . 476
Crolataria quinquefolia . . . 476
Crolataria retusa . . . 476
Crolataria spectabilis . . . 476
Crop height . . . 813
Crop injury . . . 373, 401
Crop oil concentrate . . . 449, 559
Crop quality . . . 824
Crop residues . . . 395
Crop rotations . . . 328
Crop-weed competition . . . 395
Crop yield . . . 824
Cucumis sativus . . . 559
Cultivar(s) . . . 259, 842
Cultivar-herbicide interaction . . . 395
Cultivation . . . 711
CVTSP . . . 476
Cyanazine . . . 103, 583
Cycloate . . . 68
CYNDA . . . 123, 599
Cynodon dactylon . . . 599, 691
Cynodon transvaalensis . . . 691
Cyperus esculentus . . . 173, 463, 506
Cyperus rotundus . . . 506, 691
CYPES . . . 173, 463, 506
CYPRO . . . 506, 691
Cytological damage . . . 27

D

2,4-D . . . 120, 259, 356, 554, 746
3,5-dichloro bound residue . . . 469
Date of planting . . . 173
DATST . . . 449
Datura stramonium . . . 449
DEDTO . . . 682
Degradation . . . 282
Degradation, accelerated . . . 289
Degradation, enhanced . . . 68
Degree day . . . 177
Deposition . . . 253
Descurainia sophia . . . 524
Desmodium tortuosum . . . 682
DESSO . . . 524
Development . . . 360
Developmental arrest . . . 6, 155
Dicamba . . . 356, 554, 746, 846
Dichlormid . . . 289, 364, 583
Diclofop . . . 383, 623, 673
Dietholate . . . 68, 289, 583
Difenzoquat . . . 673
Diffusive resistance . . . 482
Digitaria sanguinalis . . . 270, 388, 533, 541
DIGSA . . . 270, 383, 533, 541, 824
Dinitroaniline herbicides . . . 36, 388
Dioecious . . . 204, 247
Diptera . . . 145
Diquat . . . 204, 247, 704
Distribution . . . 149
Diuron . . . 123, 763
d'limonene . . . 253
DNA . . . 612
DNA synthesis . . . 769
Dominance, incomplete . . . 496
Dominance, partial . . . 496
Dormancy . . . 149, 155, 169, 180, 753
DPX-F6025 . . . 216, 231
DPX-Y6202 . . . 115, 127, 277
Drachocephalum parviflorum . . . 524
DRAPA . . . 524
Droplet size . . . 253
Dry herbicide formulation . . . 438
Dry matter, digestible . . . 564
Dry weed weight . . . 813
Dry weight . . . 173
DSMA . . . 75

E

ECHCG . . . 52, 80, 177, 211, 224, 373, 463, 753
Echinochloa crus-galli . . . 52, 80, 177, 211, 224, 463, 753
Economic analysis . . . 388
Economic assessment . . . 433
Economics . . . 594, 700, 711
Efficacy . . . 115, 263
ELDCA . . . 704
Electron transport . . . 763
ELEIN . . . 36, 388, 541
Eleusine indica . . . 36, 388, 541
Elodea canadensis . . . 704
Embryo rescue . . . 633
Emergence . . . 199
Endothall . . . 204
Environment . . . 568, 802
Environmental effects . . . 231
EPHES . . . 6, 155, 160
Epicotyl . . . 604, 619
Epiphyton . . . 704
EPTC . . . 68, 80, 228, 289, 364, 373, 412, 583
Eremochloa ophiuroides . . . 691
Ethephon . . . 95, 802
Euphorbia esula . . . 6, 155, 160
Evaporation, open pan . . . 568
Evolution . . . 865
Exogenous auxins . . . 155
Extender . . . 289
Extraction . . . 22, 282

F

Fabaceae . . . 476, 746
Fenoxaprop . . . 115, 224, 401, 418, 842
Fertilizer, dry . . . 412
Fertilizer, liquid . . . 412
Festuca rubra . . . 95

Fiber quality . . . 388, 813
Flamprop . . . 673
Flood irrigation interval . . . 842
Flowering . . . 199
Flowering age . . . 194
Flowers . . . 173
Fluazifop . . . 108, 115, 127, 270, 277, 282, 388, 418, 457, 686
Fluometuron . . . 270, 388
Fluorochloridone . . . 228
Flurazole . . . 547
FMC-57020 . . . 127
Foliage applications . . . 853
Foliar absorption . . . 1
Foliar dark respiration . . . 141
Foliar retention . . . 775
Fonofos . . . 68
Forage quality . . . 564
Forage response . . . 837
Forage yield . . . 564
Formulation, controlled-release . . . 407
Fungi . . . 319

G

GAETE . . . 524
Galeopsis tetrabit . . . 524
Galium spurium . . . 490
Galls . . . 145
Gas analysis . . . 482
Gas chromatography . . . 749
Gas exchange rates . . . 482
Genetic variability . . . 89
Genetics . . . 715
Germinability . . . 149
Germination . . . 45, 58, 169, 211, 277, 360, 401, 513, 753, 796, 802
Germination growth model . . . 177
Gibberellic acid . . . 180
Gibberellin . . . 802
Glycine max . . . 15, 108, 127, 185, 216, 237, 308, 407, 422, 463, 594, 647, 663, 757, 784, 830, 846
Glyphosate . . . 6, 75, 108, 115, 123, 356, 554, 590, 830
Gossypium birsutum . . . 63, 75, 270, 314, 388, 418, 529, 695, 807, 813
Grain yield . . . 401
Granular formation . . . 80
Granule applicator . . . 438
Grass control . . . 103
Grass control, annual . . . 533
Greenhouse bioassay . . . 576
Growth . . . 169, 199, 519, 819
Growth analysis . . . 177
Growth regulators . . . 802
Growth retardants . . . 95
Growth stage . . . 216, 853
GUESA . . . 295, 837
Gutierrezia sarothrae . . . 295, 837

H

^{14}C herbicide . . . 741
Haloxyfop . . . 115, 127, 282, 418, 599, 686, 769
Harvest efficiency . . . 813
Hay fever . . . 633
HELAN . . . 99, 339
Helianthus annuus . . . 99, 228, 846
Hepatotoxins . . . 476
Herbicidal combinations . . . 449
Herbicide absorption . . . 11, 303
Herbicide antidotes . . . 547
Herbicide application placement . . . 678
Herbicide, controlled release . . . 533
Herbicide detoxification . . . 463
Herbicide dissipation . . . 412, 846
Herbicide efflux . . . 11, 303
Herbicide formulations . . . 533
Herbicide incorporation . . . 364
Herbicide interaction . . . 216, 283, 623
Herbicide leaching . . . 858
Herbicide metabolism . . . 22, 463
Herbicide persistence . . . 846
Herbicide resistance . . . 36, 496
Herbicide soil behavior . . . 422
Herbicide tolerance . . . 715
Herbicide uptake . . . 247, 263
Herbicide washoff . . . 231
Herbicides . . . 253, 711, 830
Herbicides, foliar . . . 115, 418
Herbicides, granular . . . 412
Herbicides, interaction of . . . 270
Herbicides, postemergence . . . 224
Heritability . . . 715
Hexazinone . . . 123
HOE-39866 . . . 27
HOFDE . . . 360
Hoffmanseggia densiflora . . . 360
Hordeum jubatum . . . 524
Hordeum vulgare . . . 654
HORJU . . . 524
HPLC . . . 741
Humic acid . . . 237
Hybrids . . . 633
Hydrilla verticillata . . . 204, 247, 263
HYLLI . . . 204, 247, 263

I

IAQTA . . . 519
Imazapyr . . . 858
Imazaquin . . . 127, 216, 231, 576, 682, 691, 824, 865
Incorporation, delayed . . . 407
Incubation . . . 865
Infrared thermometry . . . 784
Inhibition . . . 155
Inhibitor . . . 763
Interference . . . 163, 185, 308, 314, 328, 640, 663, 669, 780, 784, 807, 813, 819, 830
Intraspecific competition . . . 63, 490, 647
Interspecific hybridization . . . 633
IPOHE . . . 824
IPOLA . . . 185, 433, 499, 711
Ipomoea batatas . . . 715
Ipomoea bederacea . . . 824
Ipomoea lacunosa . . . 185, 433, 499, 711
Ipomoea purpurea . . . 463
IPOPU . . . 463
Isozyme analysis . . . 506

J

Jacquemontia tamnifolia . . . 519
Johnsongrass rhizomes . . . 418

K

KCHSC . . . 99
Ketone metabolite . . . 469
Kinetin . . . 802
Kochia scoparia . . . 99

L

Labelle . . . 842
Lactuca sativa . . . 469, 499
Leaching . . . 576
Leaf area index . . . 647

Leaf disk . . . 619
Leaf water potential . . . 647
Lebonnet . . . 842
Lemont . . . 842
Lens culinaris . . . 669
Lethal concentration . . . 247
Leucine incorporation . . . 769
Life span . . . 194
Light . . . 52, 796, 802
Limonium sinuatum . . . 373
Linseed oil . . . 422
Lint yield . . . 388, 813
Lint yield and quality . . . 75
Linum sativum . . . 22
Linuron . . . 673
Lipid . . . 612
Lolium multiflorum . . . 80, 383, 524, 623, 819
LOLMU . . . 383, 524, 623
Longevity in soil . . . 796
Lycopersicon esculentum . . . 163

M

Management systems . . . 594
MATMT . . . 524
Matricaria matricariodes . . . 524
Maturity . . . 388
MCPA . . . 673
Medicago sativa . . . 80, 463, 564
Mefluidide . . . 95, 127
Meristematic tissue . . . 619
Metabolic inhibitors . . . 303
Metabolism . . . 469, 741, 749, 757
Metabolite(s) . . . 22, 36, 741
Metolachlor . . . 127, 259, 547, 583
Metribuzin . . . 1, 243, 259, 422, 554, 564, 673, 715, 741, 775, 858
Metsulfuron . . . 837
Microbial . . . 865
Microecosystem . . . 704
Milling yield . . . 401
Miserotoxin . . . 746
Mobility . . . 282
Mobility in soil . . . 858
Mode of action . . . 604, 612
Modeling . . . 654
Moisture . . . 678
Moisture stress . . . 482, 796
Monoecious . . . 204, 247
Morphology . . . 647
MSMA . . . 237, 270, 691

N

3-nitro-1-propanol . . . 746
Napropamide . . . 373
Niesthrea louisianica . . . 324
Net return(s) . . . 388, 433, 711
Newbonnet . . . 842
Nicotiana tabacum . . . 824
Nitrate . . . 802
Noncytoplasmic inheritance . . . 496
Nonionic surfactant . . . 1, 559, 775
Nonlinear models . . . 720
Norflurazon . . . 303, 438, 749
No-till . . . 407, 678, 695
No-tillage . . . 108, 830
Nutrients . . . 819

O

Oil concentrate . . . 853
Ontogeny . . . 141
Ornamentals . . . 373
ORYSA . . . 127
Oryzalin . . . 108, 438
Oryza sativa . . . 127, 224, 401, 686, 842
Osmotic potential . . . 58
Oxadiazon . . . 373, 533
OXRLA . . . 792
OXRMA . . . 792
Oxytropis lambertii . . . 792
Oxytropis sericea . . . 792

P

PAKAC . . . 427
PANDI . . . 27, 388, 541, 663
PANFA . . . 695
Panicum dichotomiflorum . . . 27, 388, 541, 663
Panicum fasciculatum . . . 695
Panicum maximum . . . 749
Panicum miliaceum . . . 177
Panicum texanum . . . 433, 711
PANMA . . . 749
PANMI . . . 177
PANTE . . . 433, 711
Paraquat . . . 108, 554
Parkinsonia aculeata . . . 427
Partbenium hysterophorus . . . 629
Peanut yield . . . 780
Pendimethalin . . . 259, 388, 678
Perrenial . . . 360
Persistence . . . 149, 576, 865
pH . . . 58, 360, 519, 858
Phalaris canariensis . . . 673
Phaseolus aureus . . . 463
Phenology . . . 490, 513
Phleum pratense . . . 654
Phosphorus . . . 89
Photodecomposition . . . 775, 865
Photolytic . . . 865
Photoperiod . . . 204
Photosynthesis . . . 15, 141, 482, 647
Photosystem II . . . 763
PHYAN . . . 58
Physalis angulata . . . 58
Physalis virginiana . . . 58
PHYSU . . . 58
Phytosociological structure . . . 348
Phytotoxicity . . . 123, 308, 339, 576
Picloram . . . 746, 837
Piedmont . . . 590
Pine kraft lignin . . . 243
Pine regeneration . . . 590
Pinus taeda . . . 590
Pisum sativum . . . 604, 619, 763
Plant breeding . . . 715
Plant growth . . . 185
Plant, poisonous . . . 746
Plant residues . . . 339
Planting date . . . 199
Planting depth . . . 519
Planting techniques . . . 99
Poa pratensis . . . 95, 533
Poisonous plants . . . 792
POLAV . . . 524
POLCO . . . 524
POLPY . . . 524
Polyacrylamide electrophoresis . . . 333
Polygonum aviculare . . . 524
Polygonum convolvulus . . . 524
Polygonum pensylvanicum . . . 524
Polymeric polyhydroxy acid . . . 237

Population age . . . 194
POROL . . . 52, 328, 499
Portulaca oleracea . . . 52, 328, 499
Postemergence . . . 231
Postemergence applications . . . 418
Postemergence directed . . . 568
Postemergence phytotoxicity . . . 559
Potentilla norvegica . . . 524
PPA . . . 237
PRCJG . . . 253, 444
Precipitation . . . 568
Preemergence applications . . . 576
Proboscidea louisianica . . . 807
PROLO . . . 807
Pronamide . . . 469, 564
Propachlor . . . 547
Propanil . . . 673
Prosopis glandulosa . . . 253, 444
Prosulfalin . . . 533
Protein . . . 564, 612
Protein synthesis . . . 769
PTLNO . . . 524
PTNHY . . . 629
Purshia tridentata . . . 120
Pyrrolizidine alkaloids . . . 476

Q

Qinghao acid . . . 499
Qinghaosu . . . 499
Quizalofop . . . 559, 686

R

Rainfall . . . 115, 231
Rangeland . . . 120, 295, 837
Rate . . . 444
Reduced till . . . 695
Reflectance . . . 295, 427
Regeneration from roots . . . 356
Regrowth . . . 263, 360
Relative humidity . . . 568
Remote sensing . . . 295, 427
Repeated cultures . . . 469
Reproduction . . . 173
Reproduction, clonal . . . 506
Reproduction, vegetative . . . 637
Resistance . . . 763
Respiration . . . 482, 612
Rhizobium leguminosarum . . . 669
Rights-of-way . . . 123
RNA . . . 612
RNA synthesis . . . 769
ROOEX . . . 333
Root(s) . . . 303, 604
Root absorption . . . 1
Root buds . . . 155
Root, excised . . . 619
Root meristems . . . 36
Root recuperative potential . . . 95
Root rings . . . 194
Root tips . . . 612, 769
Rooting . . . 629
Rorippe islandica . . . 524
RORIS . . . 524
Rottobellia exaltata . . . 333
Row spacing . . . 185

S

Salinity . . . 204, 360, 796
Salsola iberica . . . 554
SASKR . . . 554
SC-1084 . . . 115
SC-0224 . . . 115
Scarification . . . 45, 519, 796
SEBEX . . . 314, 463
Secretion . . . 308
Sediments . . . 282
Seed . . . 173, 180
Seed bank . . . 792
Seed burial . . . 796
Seed coats . . . 45
Seed development . . . 277
Seed dormancy . . . 52, 524, 802
Seed germination . . . 52, 324, 519, 554
Seed, herbicide-treated . . . 80
Seed longevity . . . 45, 524
Seed maturation . . . 211
Seed predator . . . 160
Seed production . . . 199, 324
Seed protectants . . . 547
Seed reproduction . . . 506
Seed, toxic . . . 476
Seed viability . . . 356
Seedhead suppression . . . 95
Seedheads . . . 145
Seedling emergence . . . 519
Seedling vigor . . . 58
Seeds, hard . . . 45
Selectivity . . . 224, 623, 757
Separation . . . 22
Sequential applications . . . 270, 418
Sesbania exaltata . . . 314, 463
Setaria faberi . . . 68, 103, 319, 407
Setaria glauca . . . 654
Setaria viridis . . . 228, 319
Setaria viridis var. *major* . . . 663
SETFA . . . 68, 103, 319, 407
Sethoxydim . . . 75, 108, 115, 127, 388, 418, 541, 568, 604, 612, 619, 686
SETLU . . . 373, 654
SETVI . . . 228, 319, 373
SETVM . . . 663
Shade . . . 519
Shrub density . . . 444
Sida spinosa . . . 438, 824
SIDSP . . . 438, 824
Sinapsis arvensis . . . 228, 673
SINAR . . . 228, 673
Site preparation . . . 590
Sludge polymer . . . 533
Soil(s) . . . 282, 469, 647
Soil activity . . . 282
Soil depth . . . 149
Soil histories . . . 289
Soil mobility . . . 576
Soil moisture . . . 89, 108, 568
Solanum carolinense . . . 356, 780
Solanum dimidiatum . . . 356
Solanum eleagnifolium . . . 813
Solanum ptycanthum . . . 58, 163
Solanum sarrachoides . . . 80, 99, 163
Solar radiation . . . 568
SOLCA . . . 780
SOLEL . . . 813
SOLPT . . . 58, 163
SOLSA . . . 80, 99, 163
SORAL . . . 796
Sorghum almum . . . 796
Sorghum bicolor . . . 364, 463, 499, 547, 678, 695
Sorghum halepense . . . 63, 75, 108, 115, 418, 438, 695
SORHA . . . 63, 75, 108, 115, 237, 339, 418, 438, 695

Sorption in soil . . . 858
SORVU . . . 364, 463
Sowing date . . . 490
Soybeans, doublecropped . . . 108
Sparganium eurycarpum . . . 640
Spectroscopy . . . 333
Spergula arvensis . . . 524, 654
SPGEU . . . 640
SPRAR . . . 524, 654
Spray volume . . . 216, 541
Spreader, hollow-cone . . . 438
SSYIR . . . 339
Starbonnet . . . 842
Starch borates . . . 407
Starch xanthates . . . 407
Starch xanthide . . . 533
Stenotaphrum secundatum . . . 691
Stomata . . . 482
Stomatal conductance . . . 15, 647
Stomatal frequency . . . 482
Stratification . . . 155
Structure-activity . . . 763
Subsurface jet injection . . . 364
Sugarbeets, transplanted . . . 99
Sulfometuron . . . 858
Superior $^{14}CO_2$ . . . 865
Surface tension . . . 253
Surfactant . . . 123, 253, 757
Survey . . . 145
Synergism . . . 377, 449

T

Tank mixtures . . . 270
Temperature . . . 52, 89, 204, 231, 360, 490, 519, 796, 802
Temperature of development . . . 169
Tephritidae . . . 145
Terbutryn . . . 123, 704
Terpenoid . . . 499
Texas blacklands . . . 695
Thidiazuron . . . 377
Thin-layer chromatography . . . 243
THLAR . . . 22, 802
Thlaspi arvense . . . 22, 802
Threshold(s) . . . 529, 594
Threshhold temperature . . . 177
Thymidine incorporation . . . 769
Tillage, conservation . . . 364, 395, 554, 695, 830
Tillage, conventional . . . 319
Tillage, reduced . . . 319, 364
Tillage systems . . . 319
Time of emergence . . . 720
Tolerance . . . 686, 749
Toxicity of *Crolataria* seeds . . . 476
Translocation . . . 6, 237, 253, 277, 457, 599, 749, 757
Transpiration . . . 15
Transplants . . . 373
Transport . . . 619
Triallate . . . 673
Trichomes, glandular . . . 308
Triclopyr . . . 746
Trifluralin . . . 36, 89, 228, 373, 388, 407, 438, 583
Trifolium pratense . . . 654
Triticum aestivum . . . 22, 463, 594, 623, 695, 741, 775, 819
Tuber buds . . . 173
Tubers . . . 204
Turf . . . 533
Tween 20 . . . 52
Tween 80 . . . 52

U

Ultraviolet light . . . 865
Uridine incorporation . . . 769
Urophora affinis . . . 145
Uropbora quadrifasciata . . . 145

V

VAAPY . . . 673
Vaccaria pyramidata . . . 673
VEEN . . . 513
Vegetative rosettes . . . 194
Verbesina encelioides . . . 513
Vernolate . . . 68, 216
Volatilization . . . 599, 775, 865
Volume . . . 444

W

Wash-off . . . 115
Weed biology . . . 173, 529
Weed communities . . . 348
Weed control . . . 237, 407, 590
Weed control, biological . . . 377
Weed control systems . . . 433, 700
Weed density . . . 663, 720
Weed dry weight . . . 780
Weed fruit production . . . 780
Weed management systems . . . 328
Weed population . . . 640
Weed seed germination . . . 524
Weed seed population . . . 328
Weed seed production . . . 185
Weeds, broadleaf . . . 654
Weeds, grass . . . 654
Weeds, tropical . . . 141
Wheat yield . . . 819
Witches broom . . . 6
Wounding . . . 753

X

XANPE . . . 463
XANST . . . 237, 529
Xanthium pensylvanicum . . . 463
Xanthium strumarium . . . 529
Xylem root rings . . . 194

Y

Yield . . . 647, 720
Yield reduction . . . 640

Z

Zea mays . . . 89, 364, 412, 463, 568, 594, 604, 612, 619
Zenaida macroura . . . 160
Zizania palustris . . . 640
Zoysia japonica . . . 691